BRUHATH BANGALORE MAHANAGARA PALIKE

me of Work: Improvements to CC roads Asphalt roads and Drains at Defence colony Havnoor Layout Munikondappa layout in Bagalgunte Ward No.14

DETAILED ESTIMATE

rd No. 14					Est. Cost		10000000.00
Description	Dimensions				Qty.	Rate	Amount
	No.	L.	B.	D			
2	3	4	5	6	7	8	9
Removing & Refixing Stone Slabs of drains and Pointing in C.M(1:3) Page No.25 I.No.5.33 of KPWD SR 2016-17							
4th cross road from Munigondappa main road							
LHS	1	224.00	1.00		224.00		
RHS	1	176.00	1.00		176.00		
					400.00		
10 % Deduction for Missing Bits					40.00		
					440.00	80.56	35446.40
						Per Sqm	
CSR of 2016-17							
Basic Rate	76.00						
Add A.W. 6%	4.56						
TOTAL	80.56						
2 KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 Page NO. 142., I.no.19.1 of KPWD SR 2016-17							
Desilting of Drain							
4th cross road from Munigondappa main road (From Anganavadi)							
LHS	1	224.00	0.60	0.60	80.64		
RHS	1	176.00	0.60	0.60	63.36		
For New Drain							
4th cross road from Munigondappa main road (Upto Anganavadi)							
	2	123.00	1.20	1.20	354.24		
5th cross road from Munigondappa main road							
	2	126.00	1.20	1.20	362.88		
From Munneshwara nagara Main Road							
	1	205.00	2.10	1.20	516.60		
					1377.72	203.10	279814.93
						Per Cum	
CSR of 2016-17							
Basic Rate	82.00						
(2.5x1.28x13)+68	109.60						
	191.60						
Add A.W. 6%	11.50						
TOTAL	203.10						
3 Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour. HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 Pg No.12 KPWD SR 16-17							
For New Drain							
4th cross road from Munigondappa main road (Upto Anganavadi)							

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Description	Dimensions				Qty.	Rate	Amount
	No.	L.	B.	D			
	2	123.00	1.20	0.15	44.28		
5th cross road from Munigondappa main road							
	2	126.00	1.20	0.15	45.36		
From Munneshwara nagara Main Road							
	1	205.00	2.10	0.15	64.58		
					154.22		
					154.22	5159.02	795598.00
						Per Cum	
CSR of 2016-17							
Basic Rate	4867.00						
Add A.W. 6%	292.02						
TOTAL	5159.02						

4	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured & paid) cost of materials, labour, HOM of machinery complete as per specifications. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work. I NO.4.46.2 KPWD SR 16-17.						
	70kg/m3 wide Item No:7				31134.6		
					31.13		
				Total	31.13	64243.42	1999897.665
						Tonnes	
	CSR of 2016-17						
	Basic Rate	60607.00					
	Add A.W. 6%	3636.42					
	TOTAL	64243.42					

5	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for wall at any thickness including cost of all materials, labour complete as per specifications. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work. I NO.4.31 KPWD 16-17.						
	4th cross road from Munigondappa main road (Upto Anganavadi)						
		2*4	123.00	0.90	885.60		
	5th cross road from Munigondappa main road						
		2*4	126.00	0.90	907.20		
	From Munneshwara nagara Main Road						
		1*4	205.00	1.50	1230.00		
				Total	3022.80	310.58	938821.224
					3022.80	Sqm	
	CSR of 2016-17						
	Basic Rate	293.00					
	Add A.W. 6%	17.58					
	TOTAL	310.58					

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Description	Dimensions				Qty.	Rate	Amount
	No.	L.	B.	D			
SRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum, with superplasticiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness). including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cill, fillet etc. including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work. I NO 4.11 Page No 13 KPWD SR 16-17							
Bottom Slabs							
4th cross road from Munigondappa main road (Upto Anganavadi)							
	2	123.00	0.90	0.15	33.21		
5th cross road from Munigondappa main road							
	2	126.00	0.90	0.15	34.02		
From Munneshwara nagara Main Road							
	1	205.00	1.80	0.15	55.35		
Side Walls							
4th cross road from Munigondappa main road (Upto Anganavadi)							
	2x2	123.00	0.15	0.90	66.42		
5th cross road from Munigondappa main road							
	2x2	126.00	0.15	0.90	68.04		
From Munneshwara nagara Main Road							
	1x2	205.00	0.15	1.50	184.50		
					441.54	**6371.66**	
				Total	**441.54**	**Cum**	2813342.76
CSR of 2016-17							
Basic Rate	6011.00						
Add A.W. 6%	360.66						
TOTAL	6371.66						
7 Providing & laying precast drain cover slab of 100 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.20 x 0.60 x 0.10)Data rate. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work.							
For New Drain							
4th cross road from Munigondappa main road (Upto Anganavadi)							
	2	123.00	0.90		221.40		
5th cross road from Munigondappa main road							
	2	126.00	0.90		226.80		
From Munneshwara nagara Main Road							
	1	205.00	1.80		369.00		
				Total	**817.20**	**2060.11**	**1683521.892**
						Sqm	
Basic Rate	4867.00						
Add A.W. 6%	292.02						
TOTAL	5159.02						

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Description	Dimensions				Qty.	Rate	Amount
	No.	L.	B.	D			
KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 Page No.158., I.No.20.18 of KPWD SR 2016-2017							
Provisions made for Bad Stretches							
4th cross road from Munigondappa main road							
CH: 0-347	1	38.00	2.8	0.20	21.28		
	1	42.00	3.80	0.20	31.92		
	1	46.00	3.20	0.20	29.44		
Provisions made for Bad Stretches							
5th cross road from Munigondappa main road							
CH: 0-60	1	27.00	3.60	0.20	19.44		
	1	32.00	3.80	0.200	24.32		
Provisions made for Bad Stretches							
6th cross road from Munigondappa main road							
CH: 0-65	1	34.00	2.1	0.20	14.17		
					140.57	**1768.08**	**248541.13**
						Per Cum	
CSR of 2016-17							
Basic Rate	1668.00						
Add A.W. 6%	100.08						
TOTAL	1768.08						
9 KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH / Chapter 5 Page No. 161., I.NO 21.2 of KPWD SR 2016-17							
4th cross road from Munigondappa main road							
	1	347.00	5.00		1735.00		
5th cross road from Munigondappa main road							
	1	126.00	4.90		617.40		
6th cross road from Munigondappa main road							
	1	131.00	4.50		589.50		
					2941.90	**3.18**	**9355.24**
						Per Cum	
CSR of 2016-17							
Basic Rate	3.00						
Add A.W. 6%	0.18						
TOTAL	3.18						
10 KSRRB 500-7. Providing and applying tack coat using 80/100 grade Bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm , heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 Page No. 161 ., I.No. 21.7 of KPWD SR 2016-17							
4th cross road from Munigondappa main road							
	1	347.00	5.00		1735.00		
5th cross road from Munigondappa main road							

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Description	Dimensions				Qty.	Rate	Amount
	No.	L.	B.	D			
6th cross road from Munigondappa main road	1	126.00	4.90		617.40		
	1	131.00	4.50				
			For BC		589.50		
					2941.90		
					2941.90	12.72 -	37420.97
CSR of 2016-17						Per Cum	
Basic Rate	12.00						
Add A.W. 6%	0.72						
TOTAL	12.72						

11	KSRRB M500- 19. Providing, laying bituminousConcrete using 40/60 THP capacity H.M.P with Mechanical paver Gr-II(30mm to 45mm), crushed aggregates of specified grading premixed with 6% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with wheeled , vibratory and tandeem rollers to achieve the desired density including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.509 Pag No.165., I.No.21.22.60 of KPWD SR 2016-17							
	4th cross road from Munigondappa main road							
		1	347.00	5.00	0.04	69.40		
	5th cross road from Munigondappa main road							
		1	126.00	4.90	0.04	24.70		
	6th cross road from Munigondappa main road							
		1	131.00	4.50	0.04	23.58		
						117.68	8118.54 -	955357.00
							Per Cum	
	CSR of 2016-17							
	Basic Rate	7659.00						
	Add A.W. 6%	459.54						
	TOTAL	8118.54						

12	Add Plastic to Bituminous Concrete 8% of Bitumen							
	Qty Vide Item No: 9					117.68	Cum	
	8 % of the (117.68.40*8%) = 9.41*141 kg					1327.43		
						1327.43	27.0 -	35840.61
							Per Kg	
13	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 Page No. 185., I.No.24.15 of KPWD SR 2016-17							
	4th cross road from Munigondappa main road							
		2	347.00	0.10		69.40		
	5th cross road from Munigondappa main road							
		2	126.00	0.10		25.20		
	6th cross road from Munigondappa main road							
		2	131.00	0.10		26.20		
						120.80	542.72	65561.00
							Per Cum	
	CSR of 2016-17							

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Sl.	Description	Dimensions				Qty.	Rate	Amount
		No.	L.	B.	D			
	Basic Rate	512.00						
	Add A.W. 6%	30.72						
	TOTAL	542.72						
22	Q.C 1% Charges						SUB TOTAL	9898516.52
								100000.00
23	Miscelleneous & other unforseen charges							
						LS		1483.48
						GRAND TOTAL Rs.		10000000.00

CERTIFICATE

1 The work spot have been inspected by me and work is found to be necessary.
2 This estimate is prepared as per CSR of 2016-17
3 This work is not split up
4 The provisions were made in this estimate are adequete and essential
5 This works comes under BBMP Limits

Asst.Engineer
Ward No.14

Executive Engineer
Dasarahalli Division
B.B.M.P.

Asst.Executive Engineer
Dasarahalli Sub Division
B.B.M.P.
ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಿಕ ಅಭಿಯಂತರ
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

ನಂ. EE/DD/AS/11/18-19 ದಿನಾಂಕ : 7/9/18
ರೂ. Rs. 100.00 lakh only
(Hundred lakh only)
ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.ದಾಸರಹಳ್ಳಿ ವಿಭಾಗ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

ನಂ. CE/TS/29/2018-19 ದಿನಾಂಕ : 24/11/18
ರೂ. Rs. 100.00 lakhs only
(Hundred lakhs only)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾ
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು
ಮುಖ್ಯ ಅಭಿ
ಬಿ.ಪಿ
ದಾಸರಹಳ್ಳಿ ವ

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